

STEPHEN J.R. SMITH FACULTY OF ENGINEERING AND APPLIED SCIENCE AT QUEEN'S  
UNIVERSITY  
Teaching Fellow Position Available  
Academic Year 2024/25

**Posting Date:** Feb 12, 2024

**Closing Date:** Feb 20, 2024

Smith Engineering invites applications from suitably qualified candidates interested in teaching the following first year undergraduate course in the 2024/25 session. This course is taught as an in-person Summer Bridging introductory course for the Smith Engineering Bridge.

**APSC 135 Introductory Chemistry for Technology Students**  
**Summer 2024: Summer Bridge**  
**Course Development: March – April 2024**  
**Teaching: May 1, 2024 – August 31, 2024**

**Qualifications:**

Minimum of Master's in Chemistry, Engineering, or related field. Previous teaching experience at the University level considered an asset. Professional Engineering license or Engineer in Training designation considered an asset. Previous educational background and/or experience must be suited to teaching the course described below. Candidates must have excellent communication and presentation skills, as well as being capable of working as a member of a teaching team.

**Course Description:**

**APSC 135 Introductory Chemistry for Technology Students Units: 4.50**

This course will examine the essential fundamentals of chemistry, as a basis for application to the various fields of engineering, drawing specific applications to current engineering practices in civil, mechanical, chemical, and mining engineering. The course will survey chemical fundamentals including stoichiometry, solution concentration, chemical equilibrium and acid-base equilibria. Physical chemistry content will include thermochemistry, behaviour of gases, chemical kinetics and electrochemistry. Students will explore organic chemistry principles including naming organic compounds, recognizing key organic functional groups, illustrate properties and study typical reactions, while highlighting the acquired knowledge to applied engineering scenarios. Special emphasis will be placed upon data manipulation and interpretation and proposing solutions/engineering designs to real world applications.

(Lec: 4, Lab: 0, Tut: 0.5)

**CEAB Units:**

Mathematics 0

Natural Sciences 47

Complementary Studies 0

Engineering Science 7

Engineering Design 0

**Course Details:**

This course requires synchronous in-person delivery from May 1, 2024 – August 31, 2024.

**Expected Enrolment (subject to change):** 15 students

Summer term classes begin Monday May 6th and end Friday July 26, 2024. The Summer term examination period is August 2-10, 2024. More information on the Undergraduate Academic Plan can be found [here](#).

Prior to May 1, 2022, the University required all students, faculty, staff, and visitors (including contractors) to declare their COVID-19 vaccination status and provide proof that they were fully vaccinated or had an approved accommodation to engage in in-person University activities. These requirements were suspended effective May 1, 2022, but the University may reinstate them at any point.

The University invites applications from all qualified individuals. Queen's is strongly committed to employment equity, diversity, and inclusion in the workplace and encourages applications from Black, racialized/visible minority and Indigenous/Aboriginal people, women, persons with disabilities, and 2SLGBTQ+ persons.

Teaching Fellows at Queen's University are governed by a collective agreement between Public Service Alliance of Canada (PSAC) 901, Unit 1, and Queen's University. Compensation for teaching the above course will be according to the [Collective Agreement](#). In addition to the course delivery compensation, the successful candidate will also be compensated \$2,000, in recognition of the course development work to create course during March/April.

The University will provide support in its recruitment processes to applicants with disabilities, including accommodation that takes into account an applicant's accessibility needs. If you require accommodation during the interview process, please contact [engineering.hr@queensu.ca](mailto:engineering.hr@queensu.ca).

To comply with Federal laws, the University is obliged to gather statistical information about how many applicants for each job vacancy are Canadian citizens/ permanent residents of Canada. Applicants need not identify their country of origin or citizenship; however, all applications must include one of the following statements: I am a Canadian citizen/permanent resident of Canada; OR, I am not a Canadian citizen/permanent resident of Canada. Applications that do not include this information will be deemed incomplete.

Applications should include a complete and current curriculum vitae, a copy of your transcript, a statement of teaching experience, the names and contact details of two referees who may be contacted, and any other relevant materials the candidate wishes to submit for consideration. Applications can be submitted to the First Year Committee at the address below, or by e-mail to [engineering.hr@queensu.ca](mailto:engineering.hr@queensu.ca). Applications should arrive no later than February 20, 2024.

First Year Committee

Stephen J.R. Smith Faculty of Engineering and Applied Science

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